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NPIC/TSSG/DED-1530-69 10 March 1969

MEMORANDUM FOR : Chief, Plans & Programs Division, PPBS/NPIC

THROUGH

: Chief, Technical Services & Support Group, NPIC

SUBJECT

: R&D Status Report on Selected Projects

REFERENCE

f PPD/PPBS Speed Letter Dated 24 December 1968

1. The following February Project Status information is forwarded in response to the request contained in the reference letter:

a., High Precision Stereo Comparator - The project is just about on schedule. No major problems were encountered during the last month. the optical subcontractor, is maintaining the new schedule and hes completed 55% of the optical work. two days during the middle of March in wasnington reviewing the final Project Manager will spend plans for the site preparation for this instrument.

Sutomatic Target Recognition Program - A five week, no cost, time e tension has been granted to the contractor primarily because of delays in the receipt of demonstration breadboard components. The cloud screening feasibility demonstration is now scheduled for 21 April. It is still planned to demonstrate feasibility using the electronic clue extraction technique and

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the diffraction pattern sampling approach. Contract negotiations for Phase IV are tentatively scheduled for the week of 21-25 April. This phase will be a sixteen month effort and result in an engineering prototype automatic cloud screener for on-line testing.

- c. 1540 Light Table Acceptance testing by the Engineering Support Division was completed on 7 March. Operational evoluation by IEG is scheduled from 10 March to 7 April, I'S from 7-21 April, DIAAP-9 from 21-28 April, and Army/SP D from 28 April to 5 May.
- d. Dry Silver Materials & Equipment Report Critical heat transfer problems are app rent with low gamma processing. E treme sensitivity of the material is indicated. Chemists and newly acquired thermodynamic and heat transfer personnel are working on the problem.

GROUP 1 Excluded from Balomatic dawngrading and Reclassification

Declass Review by NIMA/DOD

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The new clean room pilot coating plant will be shut down for two weeks for the installation of addition 1 controls and monitoring equipment. This is a pacted to considerably improve coating uniformities.

e. Wide-Field, High-Power 'namorphic Stereoviewer - The delivery of the first phase report (the optic 1 design) and the wooden mock-up of the instrument will be two weeks early, now scheduled for 17 March 1969. The contractor, has essentially completed the design and is presently completing the preliminary mechanic 1 design, the mock-up and the first phase report. On the assumption that an acceptable optic 1 design is produced, the prototype instrument is still scheduled for delivery on 30 July 1970.

The staff study, mentioned in the 1 st report, concerning the problem of use of this instrument by operators who wear eyeglasses has been forwarded to the E-ecutive Director.

fabrication of this instrument and final inspection is now scheduled for 13-14 March 1969. Assuming satisfactory performance the instrument should be received by NPIC by 17 March at which time a previously scheduled evaluation program extending to mid-May 1969 will begin.

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the date for two monthly cost-to-complete reviews have been collected. The combined schedule and cost predictions result in a five week delay to 16 June 1969 and additional funds required of

However, very serious optical design errors by ______ in the Rhomboid arm section have come to light in the last two weeks since the above estimates. Alternative solutions are being analyzed by ______ and will be presented to TESG/DED and its optical consultant, ______ on 14 March 1969. The substitutions are probable schedule slippage will result with any one of the solutions; nevertheless, the Automatic Stereo Sc nner will virtually be unuseable without these corrections. Approximately ______ remains of the funds uthorized for contingency use in small increments.

h. Image Comparison Microsterescope - Electrical design is complete and breadboard has been constructed and tested successfully. Optical design has been completed, including an MTF analysis. In interface problem in the mechanical design of the stage linkage arose and has been

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i de	Approved For Release 2003/05/ RDP78B05171A000600020173-1
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	Deputy Chief, Development & Engineering Division, TSSG
	Distribution: Original - Addressee

(10 March 69)

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